

Mini Hi-Fi Component System

Operating Instructions



*MHC-2200CD
MHC-3300CD*

Owner's Record

The model and serial numbers are located at the rear. Record these numbers in the spaces provided on the right. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. ST-818M

Serial No. _____

Model No. TA-____M

Serial No. _____

Model No. TC-____M

Serial No. _____

Model No. CDP-S207

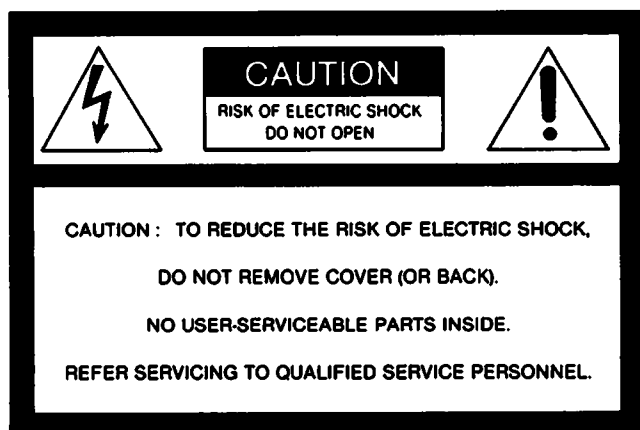
Serial No. _____

Model No. SS-H____

Serial No. _____

Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

The use of optical instruments with this product will increase eye hazard.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna

Relocate the equipment with respect to the receiver

Move the equipment away from the receiver

Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems".

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Overview

Tuner section

You can receive stations by selecting station frequencies manually or by selecting one of the stations stored into the memory. You can store up to 30 stations in the memory.

Amplifier section

- DBFB (Dynamic Bass Feedback) system reinforces bass sound.
- 5-band graphic equalizer adjusts the sound quality according to your preference during playback.

Cassette deck section

- Auto-reverse deck (s) enable repeated playback of both sides of the cassette.
- Double decks enable tape dubbing and successive playback. (MHC-3300CD only)

Precautions

On operating voltage

Operate the system only on 120 V AC, 60 Hz.

On safety

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the component, unplug the system and have the component checked by qualified personnel before operating it any further.
- The nameplate indicating operating voltage, etc. is located at the rear of the amplifier.

If you have any questions or problems concerning your stereo system, please consult your nearest Sony dealer.

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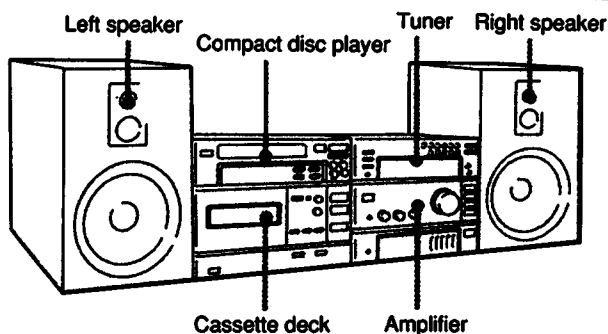
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Preparations

Setting up



Installation

To prevent internal heat build-up with the system

Place the stereo system in a location with adequate ventilation.

To avoid malfunction of the remote commander

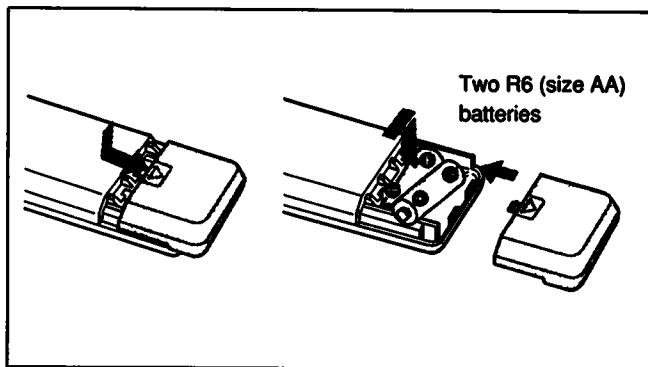
Keep the commander away from extremely hot or humid places.

On moisture condensation in the CD player

If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the unit. Should this occur, the player will not operate. In this case, remove the disc and leave the player turned on for about an hour until the moisture evaporates.

Battery Installation

Install the batteries in the supplied remote commander for remote control operation.



Battery life

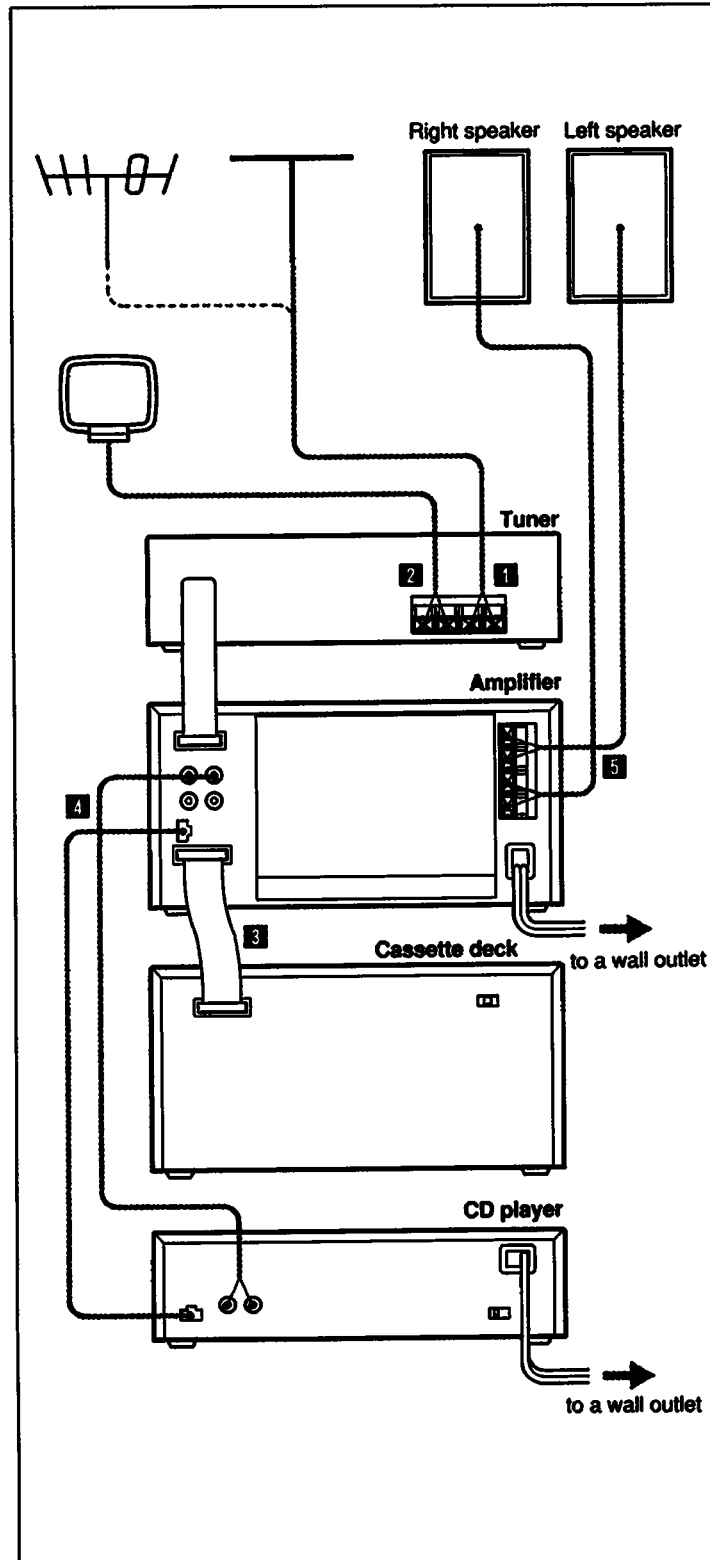
About half a year of normal operation can be expected when using the Sony SUM-3 (NS) batteries. When the batteries are exhausted, the remote commander cannot operate the stereo system. When it happens, replace both batteries with new ones.

To avoid battery leakage

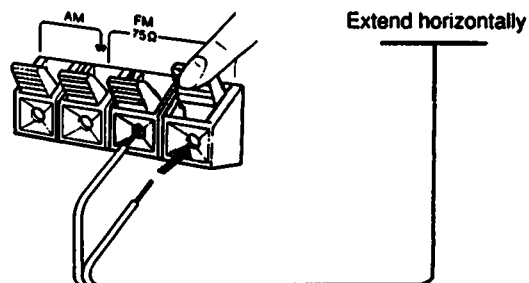
When the commander is not to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage and corrosion.

Connections

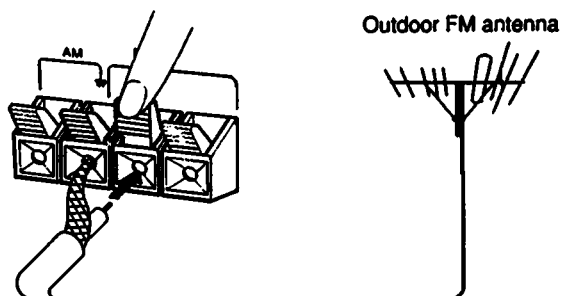
- Connect the AC power cord last. Make sure the power is off.
- Cord plugs and jacks are color coded. Red plugs and jacks are for the right channel (R) and white ones for the left channel (L).



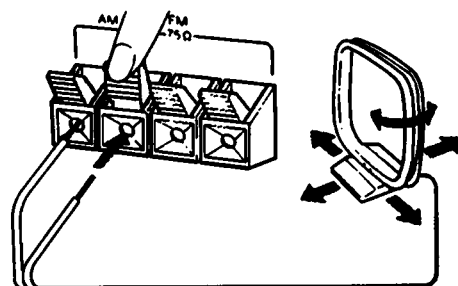
1 FM wire antenna (supplied)



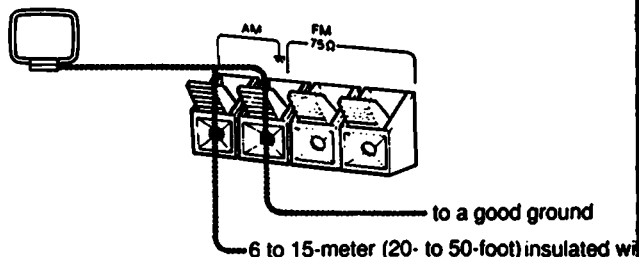
For better FM reception



2 AM loop antenna (supplied)



For better AM reception

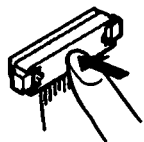


Important

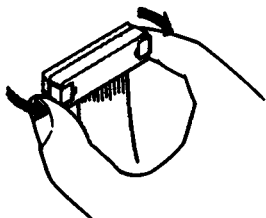
When you use an external antenna, be sure to ground it against lightning.
(Never connect the ground wire to a gas pipe. Doing so is extremely dangerous.)

3 Flat cord (supplied)

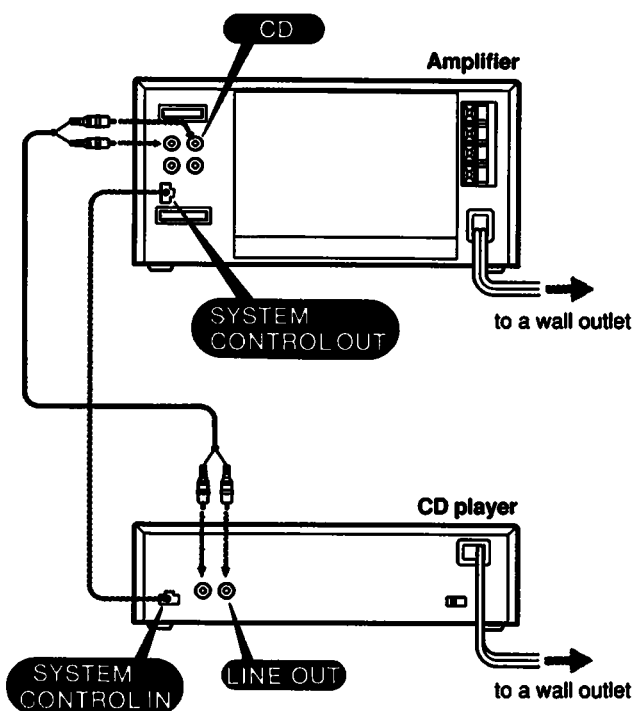
To connect



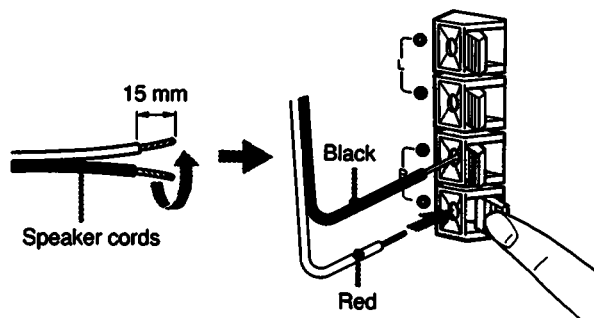
To disconnect



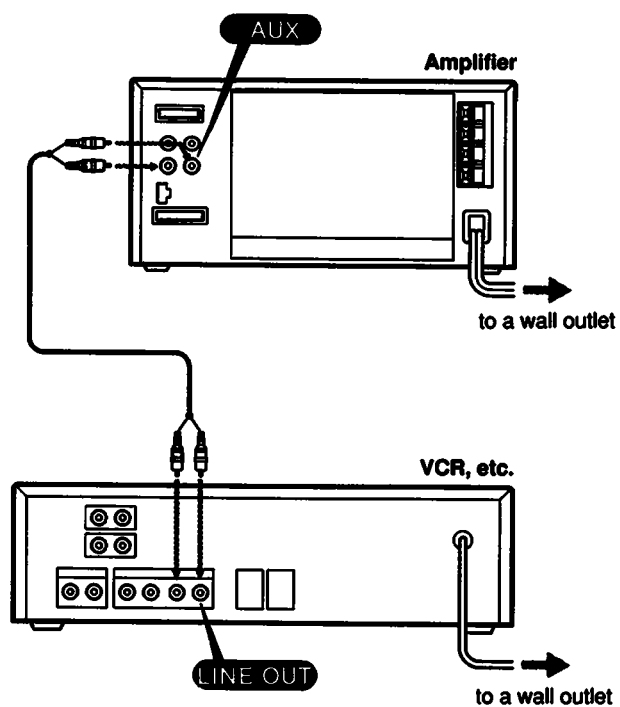
4 CD player



5 Speaker cords



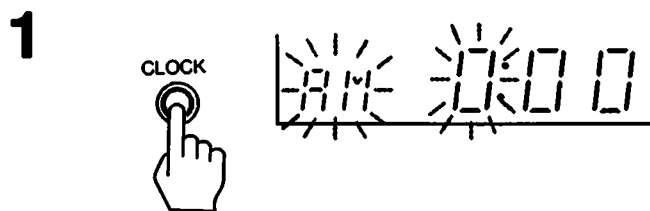
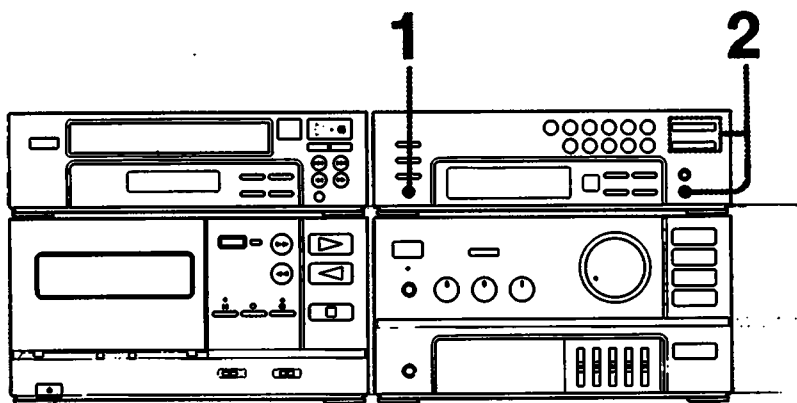
Adding other components



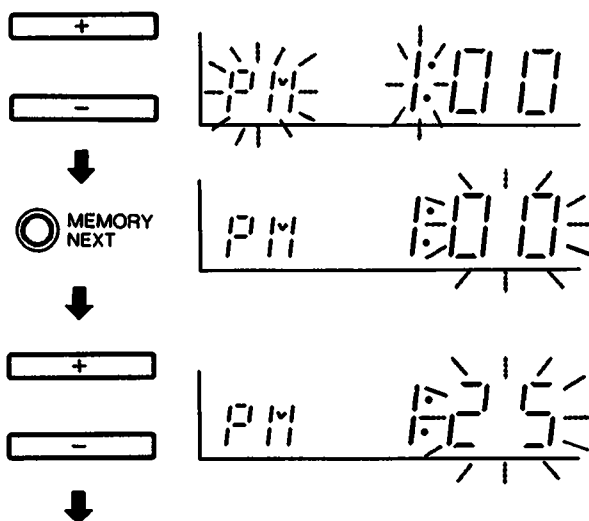
To listen to the connected equipment
For the equipment connected to the AUX jacks, press AUX.

Clock Setting

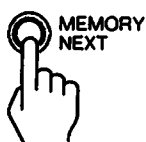
Clock setting operation



2 Set the time. (e.g. PM 1:25)



Press MEMORY NEXT as soon as you hear the time signal.



The clock starts operating.

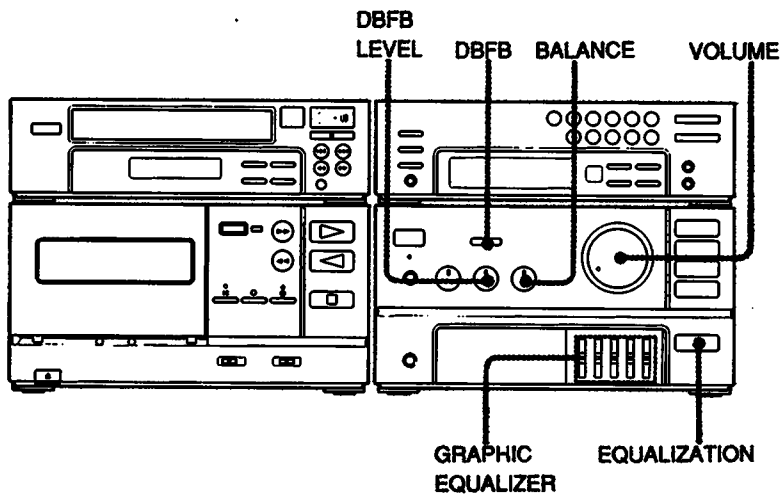
Information on the time

The clock shows the time in a 12-hour system.
"AM 0:00" is midnight, and "PM 0:00" is noon.

When a power interruption occurs

The time will blink and the clock will be delayed for the length of time of the power interruption. After the power is restored, the display must be reset to the proper time. (Timer setting is not cancelled by power interruption.)

Audio Adjustment



Volume Adjustment

Turn **VOLUME** clockwise to increase the sound level, or counterclockwise to decrease it.

Sound Quality Adjustment

To reinforce bass

Press **DBFB** and adjust **DBFB LEVEL**. Turn **DBFB LEVEL** clockwise for increasing the bass, and turn counterclockwise for decreasing it.

To adjust sound quality

Press **EQUALIZATION** so that the red indicator lights up and adjust **GRAPHIC EQUALIZER** to your personal preference.

100 Hz: Boost or cut heavy bass.

400 Hz: Adjust the power, spaciousness and warmth of the sound.

1 kHz: Use to provide more presence for vocals.

4 kHz: Boost to a brighter sound to reduce stridency.

12 kHz: Use to highlight the delicate quality of instrumental sound.

To listen without equalization, press **EQUALIZATION** to put the red indicator off.

Balance Adjustment

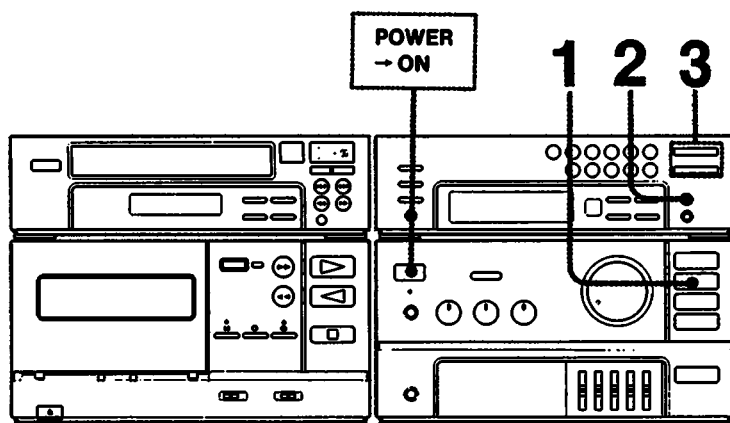
To change the relative strength of the right and left speaker output, adjust the **BALANCE** control.

For personal listening

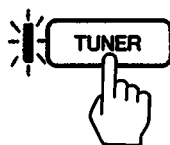
Connect headphones to **HEADPHONES**.

Radio

Tuning in Manually

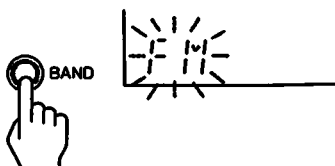


1



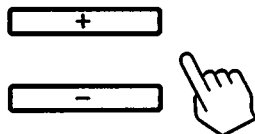
2

Select band.



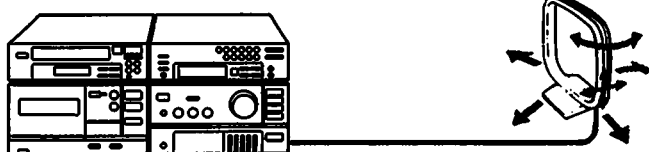
3

Select station.



AM antenna adjustment

Find the best location.



Indications on display

TUNED: Appears when a station of sufficient signal strength is tuned in.

STEREO: Appears when an FM stereo program of sufficient signal strength is received.

Changing the AM Tuning Interval

The AM tuning interval is preset at the factory to 10 kHz.

If you use a system where the frequency allocation system is different from the preset interval, change the interval as follows.

- 1 Turn on power.
- 2 Tune in any AM station.
- 3 Turn off the power.
- 4 Turn power back on while pressing **+** button.

To reset the interval, follow the same procedure.

Important

When the interval is changed, stored stations will be erased from the memory.

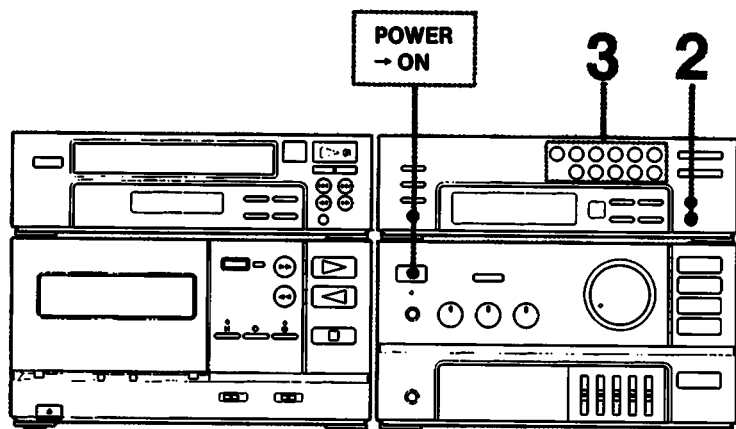
Eliminating FM interstation noise

When tuning manually keep **STEREO/MUTING** engaged to eliminate interstation noise.

Receiving a noisy FM station or a very weak station

Disengage **STEREO/MUTING** for better reception. The sound will be monaural instead.

Storing Stations in the Memory



1 Tune in a desired station.

2



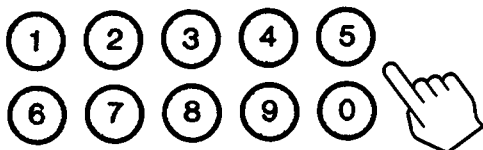
3 Allot one of the following codes:

A-1, A-2, ..., A-0,
B-1, ..., B-0,
C-1, ..., C-9, C-0



● First, select alphabet.

● Select number.



4 Repeat these steps for each station to be preset.

The codes are denoted by a single letter (either A, B or C) followed by a digit number (1-9, 0). Therefore, there are 30 codes in total.

You can store a desired station on any of these codes.

The stored station can be recalled simply by entering its corresponding code.

To tune into a Preset Station

Press **SHIFT** and the numeric button to select the desired code.

Scanning Stored Stations—Memory Scanning

1 Press **MEMORY SCAN**.

A digit number of a code will blink on the display.

2 Press **+** or **-**.

Stored stations are tuned in order of the codes.

To stop scanning when the desired station is located, press MEMORY SCAN again.

Scanning Stored Stations Manually

1 Press **PRESET/TUNING**.

"PRESET" will light up on the display.

2 Press **+** or **-**.

Pressing **+** once: Scans the next higher stored stations in order of the codes.

If you cannot store a station successfully

Press **MEMORY** again, and then enter the desired code.

Be sure to enter the code while the **MEMORY** indication is lit.

When you have pressed the wrong code
Press **MEMORY** and then enter the correct code.

Can a previously stored station be erased?

No. Erasing only is not possible, but storing a new station erases the previously stored one.

Important

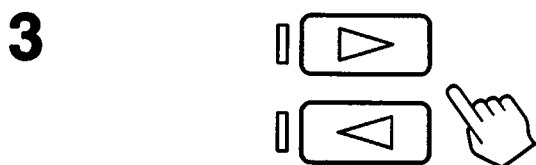
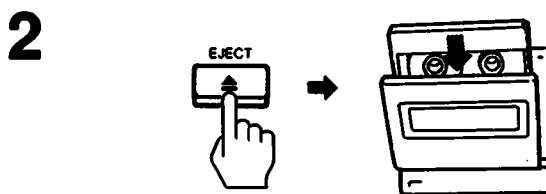
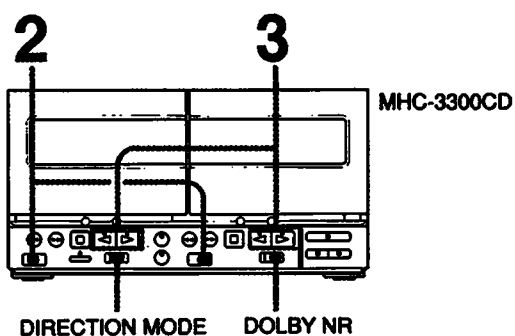
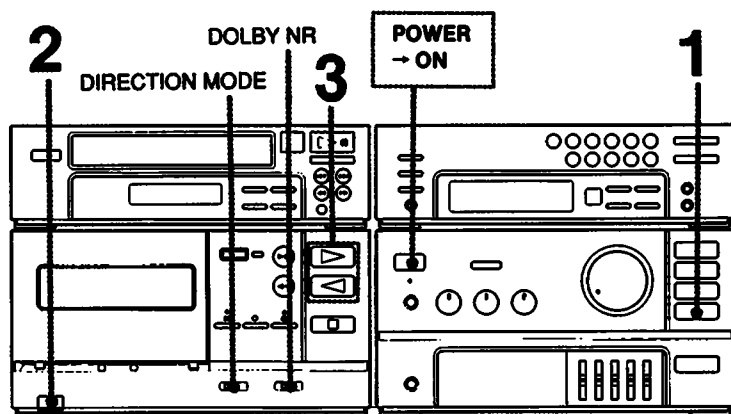
If you leave the unit disconnected from the wall outlet for more than one month, stored stations may be erased from memory. In this case, store the stations again.

Which stations are skipped during memory scanning?

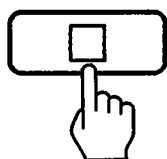
The memory scan will skip those which have a very weak signal.

Tape Playback

Playback operation



To stop playback



Playing Back Automatically after Fast Winding—Auto Play

You can start playback automatically from the beginning of a cassette after fast winding.

Start fast winding as follows:

To start playback from the beginning of the front side:

Press ▷ while keeping ◀◀ pressed.

To start playback from the beginning of the reverse side:

Press ◁ while keeping ▶▶ pressed.

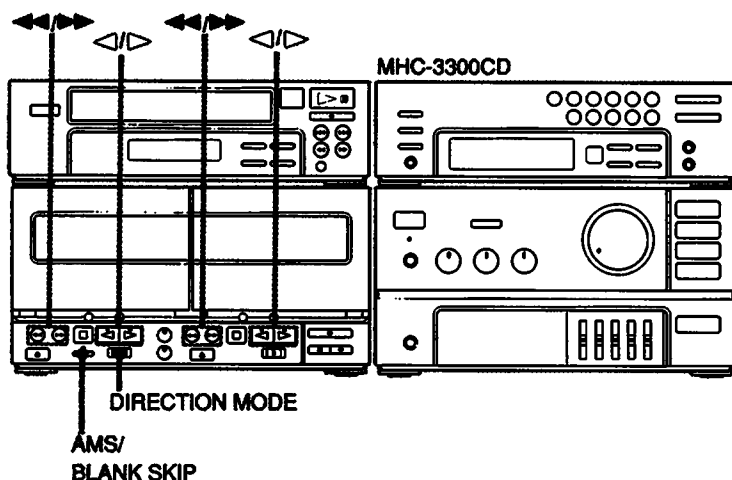
How to select the DIRECTION MODE position

To play back one side, select

To play back both sides, select

How to use the DOLBY NR switch

Set the DOLBY NR switch to the same position as was used when the cassette was recorded.

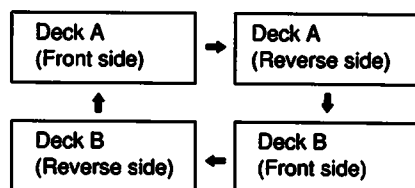


Playing from Deck A to B in Succession—Relay Play (MHC-3300CD only)

- 1 Insert recorded cassettes in both decks.
- 2 Set DIRECTION MODE to RELAY.
- 3 Press $\triangleright$ or $\triangleleft$ on Deck A or Deck B.

To stop relay play, press $\square$ of the deck playing.

Relay play always follows the sequence below regardless of where playback starts. When playback of the reverse side of the tape in Deck B is completed, the following sequence continues 4 more times.



Locating the Beginning of a Selection during Playback—Automatic Music Sensor (AMS) (MHC-3300CD only)

The AMS detects the blank space between selections and locates the beginning of a selection during playback. To assure correct operation of the AMS, there must be a blank of 4 seconds or longer between selections.

- 1 Press AMS/BLANK SKIP (or $\bigcirc$ on the remote commander) to illuminate its indicator.
- 2 Press $\triangleright$ or $\triangleleft$ to start playback.
- 3 Press $\triangleright\triangleright$ or $\triangleleft\triangleleft$ referring to the following table.

Direction Indicator	Side of the cassette being played	Desired selection	
		Next selection	Selection being played
	Front side	$\triangleright\triangleright$	$\triangleleft\triangleleft$
	Reverse side	$\triangleleft\triangleleft$	$\triangleright\triangleright$

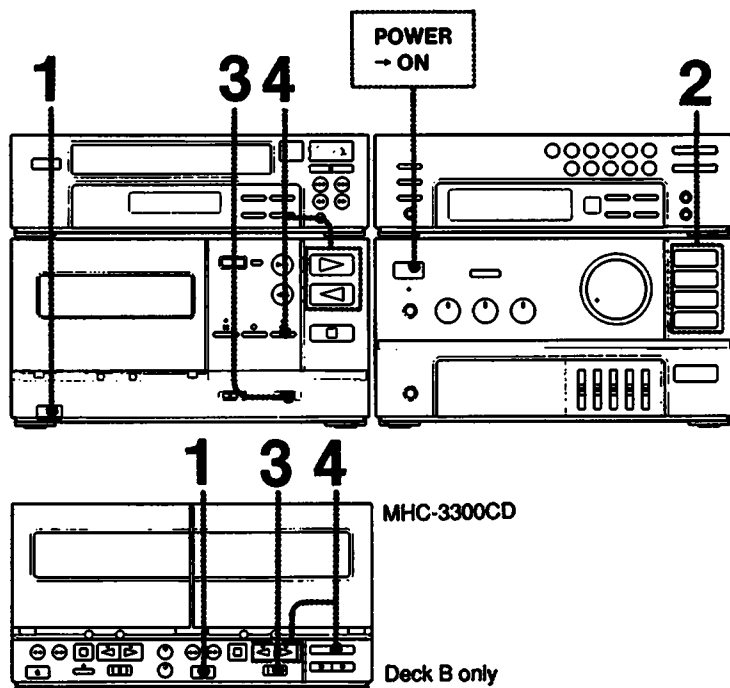
Skipping a Blank (MHC-3300CD only)

The deck automatically goes into the fast winding mode where there is a blank of about 10 seconds or more. Playback begins when a new selection begins.

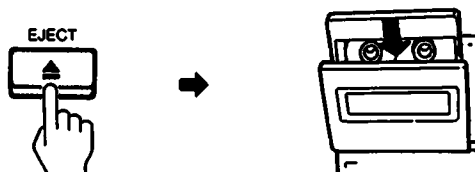
Press AMS/BLANK SKIP to illuminate its indicator.

Recording

Recording operation



1



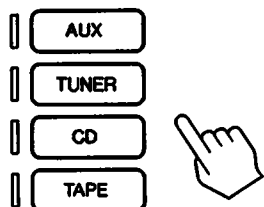
3

Select the DOLBY NR option according to your preference.



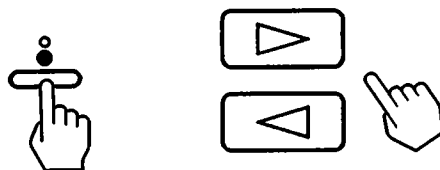
2

Select program source, and play it.



4

Keep ● pressed and press > or <.



To stop recording



How to start recording precisely

- 1 Press **II** after step 3 on left.
- 2 While keeping **●** pressed, press **▷** or **◁**.
- 3 Press **II** again at the desired point.

Reducing Tape Hiss Noise with the DOLBY NR Switch (Step 3 on left)

Dolby NR system	Dolby NR position
B	B
C	C
Disengaged	OFF

Usable tapes

	MHC-2200CD	MHC-3300CD
TYPE I (Normal)	Yes	Yes
TYPE II (CrO ₂)	Yes	Yes
TYPE IV (Metal)	No	Yes

To Insert a Blank Space

Using the **○** button during recording, you can insert a blank space in a tape to help you locate a selection (AMS function, see page 11). In addition, this function enables you to eliminate unwanted input by replacing it with a blank space.

- 1 While recording, press **○**.
If you want the blank to be four seconds long, press and release immediately.
After four seconds, the unit goes into the pause mode.

If you want it to be longer, keep pressing for as long as you want.

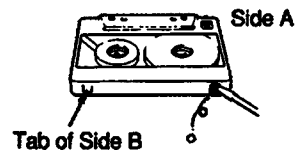
When you release **○**, the unit goes into the pause mode.

- 2 Press **II** again to resume recording.

Notes on cassettes

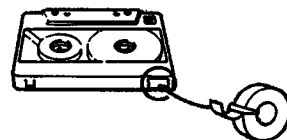
To protect Side A recording

Break out the tab of Side A.



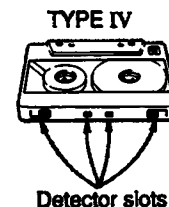
To re-record the cassette

Cover each slot with plastic tape.



When using a TYPE II (CrO₂) or TYPE IV (metal) tape

Be careful not to cover the detector slots which are necessary for automatic tape type detection.



What is the Dolby NR system*?

Dolby NR (noise reduction) system reduces tape hiss noise in low-level high-frequency signals. The system boosts these signals in recording and lowers them in playback.

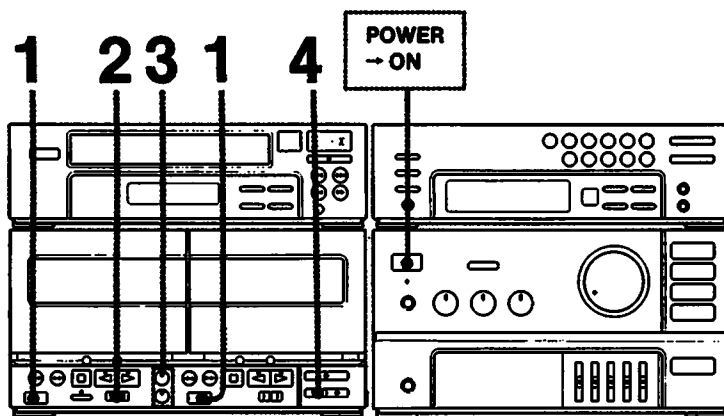
* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol **DD** are trademarks of Dolby Laboratories Licensing Corporation.

If whistling noise is heard during recording AM program

Slide the ISS (Interference Suppress Switch) at the rear to position 1, 2 or 3 depending on which best reduces the noise.

Tape Dubbing (from deck A to deck B) – MHC-3300CD only

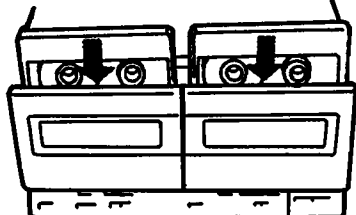
Tape Dubbing Operation



1

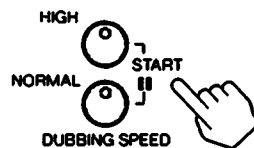
Recorded tape

Blank tape



3

Select dubbing speed.

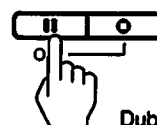


2

Select tape direction mode.



4



Dubbing starts.

To stop dubbing

Press ☐ on Deck B during dubbing at NORMAL SPEED.

Press ☐ on Deck A or Deck B during dubbing at HIGH SPEED.

Eliminating Long Blanks during Dubbing

In normal dubbing, you can skip blanks between selections.

- 1 Start normal speed dubbing.
- 2 Press AMS/BLANK SKIP.

When the Deck A detects a blank of more than 10 seconds long, it skips to the beginning of the next selection, and the playback resumes. During that period, Deck B goes into the recording pause mode, and resumes recording when the playback on Deck A restarts.

Skipping a Particular Portion during Dubbing

In normal speed dubbing, you can dub only desired portions on tape.

- 1 Start normal speed dubbing.
- 2 Press ☐ on deck A at the beginning of the portion to be skipped. Deck B goes into the recording pause mode.
- 3 Search for the portion to dub next on Deck A using **▶▶** or **◀◀**. Then press ☐ to stop the tape.
- 4 Press **||** on Deck B. Dubbing begins again.

How to select the DIRECTION MODE position (Step 2 on left)

⇐: Dubbing on one side of the tape. Dubbing stops at the end of the tape.

↔: Dubbing on both sides of the tape with the same lengths. When the tape on one deck comes to its end, it reverses immediately regardless of the tape position of the other deck.

RELAY: Dubbing on both sides of the tape with the different lengths. When the tape on one deck reaches its end, it stops until the other tape also comes to the end, and then both tapes reverse together.

When dubbing starts from the reverse side in RELAY mode

At the end of the reverse side, dubbing stops automatically.

How to select the DUBBING SPEED position (Step 3 on left)

NORMAL speed: Dubbing is convenient to edit the tape.

HIGH speed: Dubbing is convenient to dub a whole tape.

Note

During high speed dubbing, only ☐ is operative.

Is it necessary to select the DOLBY NR system ?

No. The cassette in Deck B is automatically recorded in the same state as the original cassette on Deck A.

Is it possible to listen to program sources other than tape during dubbing?

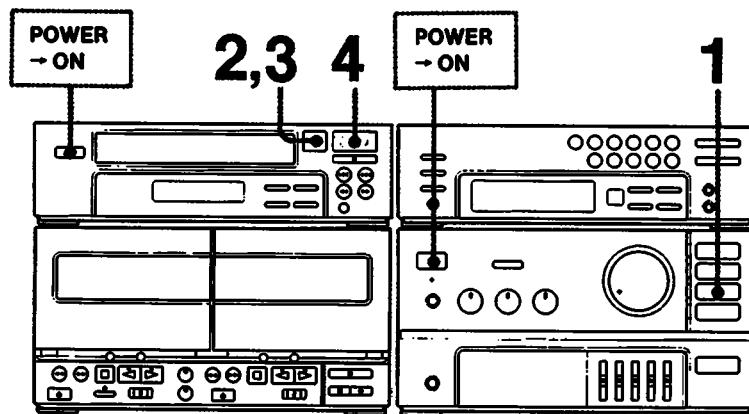
Yes. Any program source can be selected with the function selectors.

To insert a four-second blank space between selections

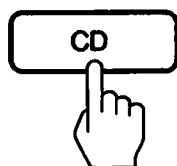
The recording muting function is also available during normal speed dubbing. Press **⏏** when the deck B is in pause during dubbing.

Disc Playing

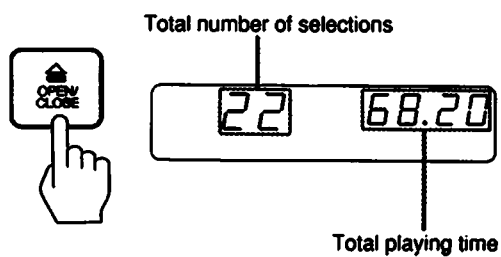
Playing the entire disc



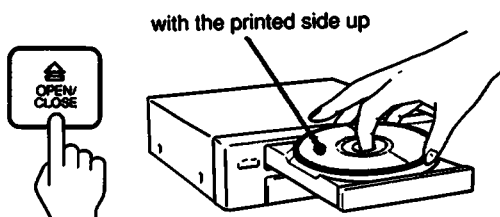
1



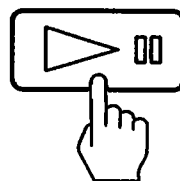
3



2



4



Caution on adjusting volume

Do not turn up the volume while listening to a portion with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level portion is played.

To stop play

Press ■.

To stop for a moment during play

Press ►||.

To resume play, press again.

To stop play and open the tray

Press ▲.

Information display

Each time you press DISPLAY during play, the display changes to give you the following information.

- A** Elapsed playing time
- B** Remaining time in a selection if the current selection number is over 20, "----" is displayed.
- C** Remaining time of the disc

Playing a Single Selection—Single play

You can play just one selection and then stop instead of playing the entire disc. Press CONTINUE to indicate "1" in the display. Playing stops when the current selection ends.

To listen to another selection

Choose the desired selection with ◀◀/▶▶, ◀▶/▶▶, or the numeric buttons on the remote commander.

To cancel single play

Press CONTINUE again.

Locating a Particular Selection

You can locate the beginning of a desired selection during play or pause.

To locate sequentially

To locate the beginning of the current or preceding selection

Press ◀◀ as many times as required.

Keep ◀◀ pressed to skip selections.

To locate the beginning of a succeeding selection

Press ▶▶ as many times as required.

Keep ▶▶ pressed to skip selections.

To locate a selection directly with the remote commander

Press one of the numeric buttons (1 to 16) to enter the desired track number.

Locating a Particular Point in a Selection

You can locate a particular point in the disc during play.

To search quickly while monitoring the sound

To go ahead at high speed.

Keep ▶▶ pressed during play and release at the desired point.

To go back at high speed

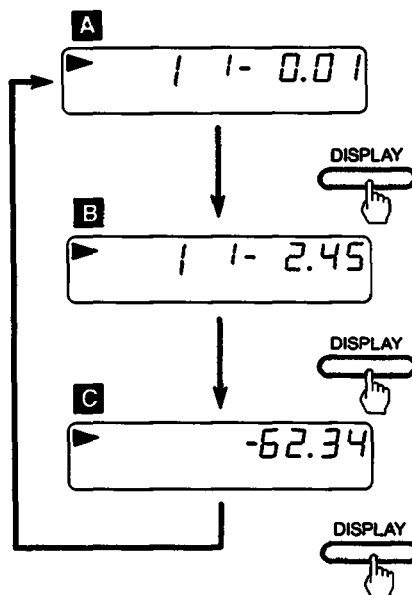
Keep ◀◀ pressed during play and release at the desired point.

To search quickly by observing the display

Press ||, then keep ▶▶ or ◀◀ pressed.

The search speed will increase, but there will be no sound. Find the desired point by observing the display.

Press || again at the desired point.



To play a 8 cm (3-inch) CD

Place it on the inner circle of the tray. If the disc is provided with an adaptor, first remove it. Do not put a normal CD (12 cm/5-inch) on top of an 8 cm CD.

When the TUNER function is selected

The CD player will turn off automatically. (This prevents interference to radio reception.)

Notes on handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.



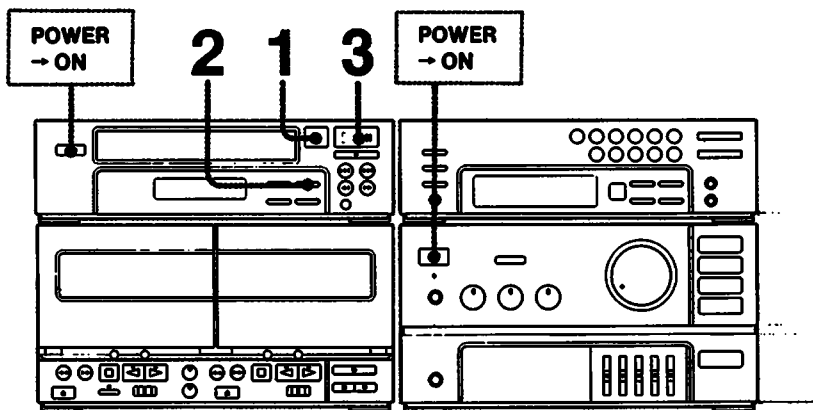
- Do not stick paper or tape on the disc.



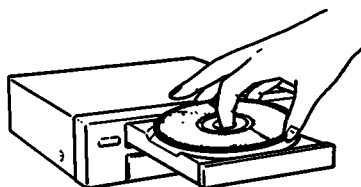
- Do not expose the disc to direct sunlight or heat sources such as hot air duct, or leave it in a car parked in direct sunlight as there can be a considerable rise in the temperature.
- After playing, store the disc in its case.

Disc Playing

Playing in a Random Order—Shuffle Play



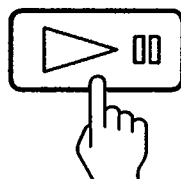
1



2



3



You can have the selections played in a random order. The unit will play all the selections, or just the selections you desire.

To stop playing

Press ■.

To cancel shuffle play

Press CONTINUE and the normal playing mode will be resumed.

To play only the desired selections in a random order—Delete Shuffle Play

Delete the undesired selections before or during play.

Delete the undesired selections by pressing the selection numbers with the remote commander.

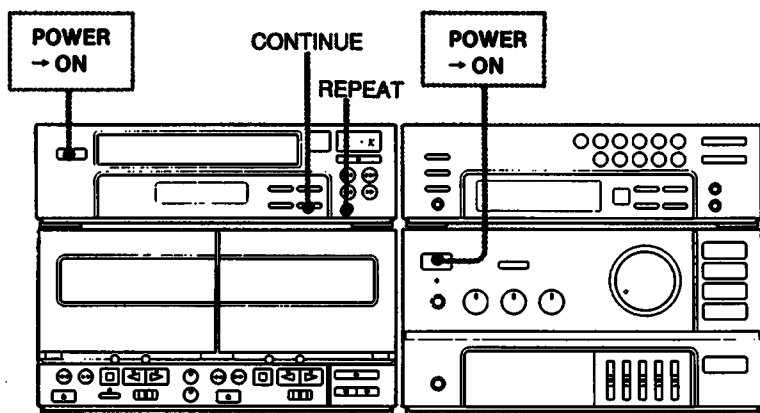
The Delete Shuffle operation is only possible with the remote commander.

To check the remaining time of the selection being played

Press once; press once more to return to the initial display.

The total remaining time will not be displayed.

Playing Repeatedly—Repeat Play



You can repeat the whole disc, a single selection, all the programmed selections or shuffle play.

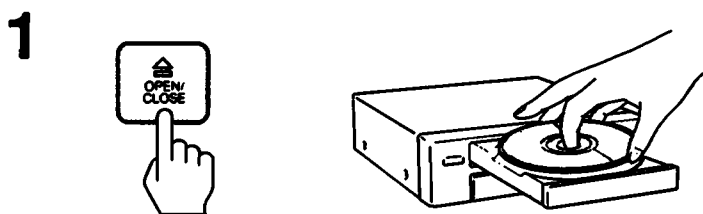
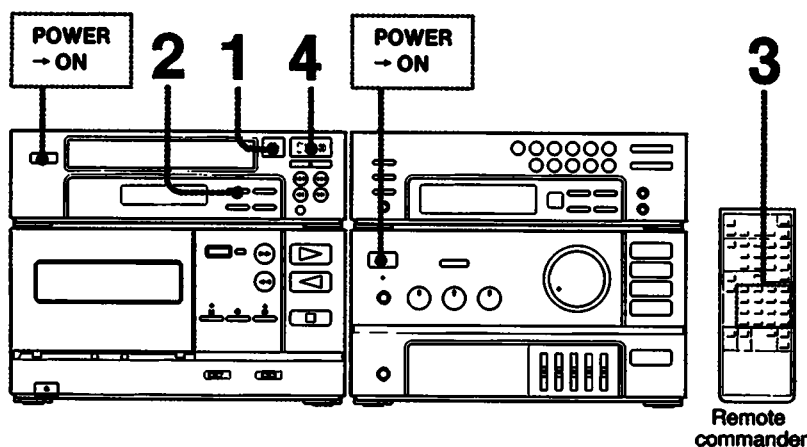
Press REPEAT during play or pause. Repeat play begins according to the current play mode.

To cancel repeat play

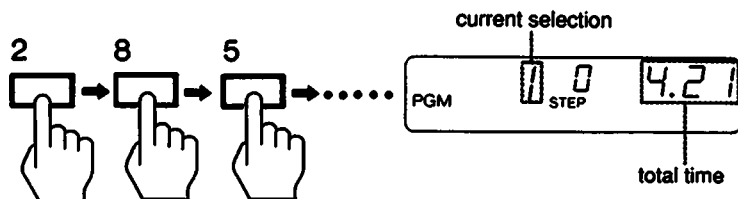
Press REPEAT again.

Disc Playing

Playing in a Desired Order – Program Play



3 Press selection number in desired order



You can make a program by designating up to 20 selections in the order you want them to be played. The unit will play the disc according to your program.

To stop playing

Press ■.

You can play the same program repeatedly as long as you do not cancel program play or erase the program.

To cancel program play

Press CONTINUE and return to the normal playing mode.

The program will be erased.

To erase the entire program

Press ■ once during stop; twice during play.

The program is also erased when you press to open the disc tray or turn off the unit.

To check your program

Press during pause.

Each time you press , the track number of the programmed selections is displayed in the order in which the selection is to be played.

To add a selection to the end of the program

Follow the same procedures as "Playing in a Desired Order" while the unit is in stop mode. You cannot add selections during play.

If "—" is displayed instead of the actual time

- You have programmed a selection number over 20.
- the total time has exceeded 100 minutes

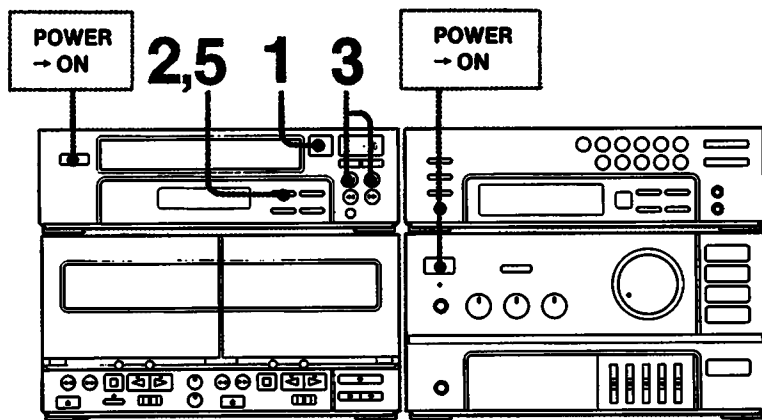
To check the remaining time

Press DISPLAY once to see the remaining time of the selection being played; twice to see the total remaining time; once more to return to the initial display.

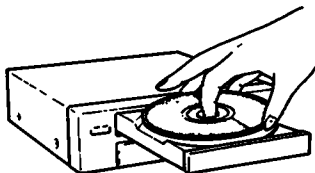
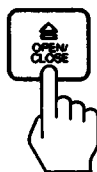
If you have inserted a pause, the display shows the remaining number of selections and time until the pause.

If you have programmed a selection number over 20, "—" is displayed instead of the actual time.

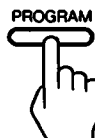
Designating the Playing Order and Time – Program Edit



1

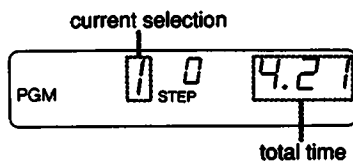


2



3

Choose selection and check the time.



4

If satisfactory, go to next step. If not repeat step 3 and choose another selection.

5

Store selection.



6

Repeat steps 3 to 5.

You can make a program by designating up to 20 selections in the order you want them to be played. At the same time, you can adjust the total playing time of the program. The unit will play the disc according to your program. This function is convenient for editing tapes.

To play the program

Press ▷◁.

To stop playing

Press ■.

You can play the same program repeatedly as long as you do not cancel program play or erase the program.

To cancel program play

Press CONTINUE and the normal playing mode will be resumed.

The program will be erased.

To make a program for editing a tape

You can insert a pause in your program. Use this function to make a program for both sides of the tape at one time.

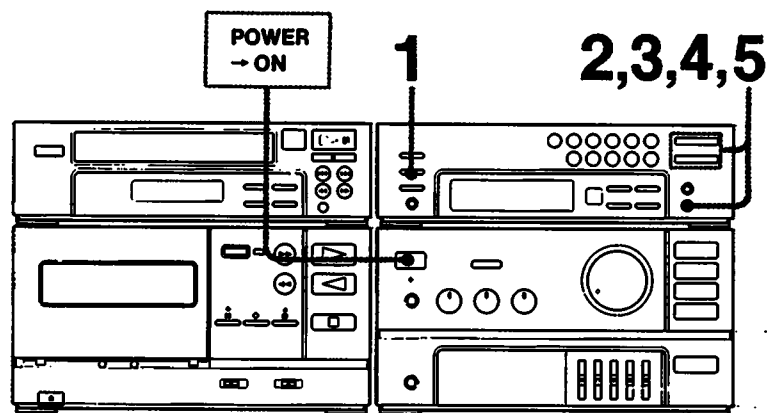
- 1 Program the selections for side A.
- 2 Press PROGRAM and ▷◁. The total playing time will be reset to 0.
- 3 Program the selections for side B.

When you start playing, the selections for side A will be played and then the unit will pause.

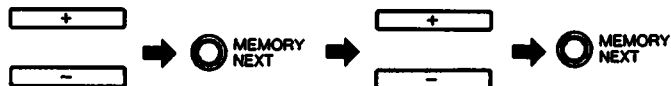
Set the tape to the beginning of side B, then press ▷◁. The selections for side B will be played.

Timer-activated Operation

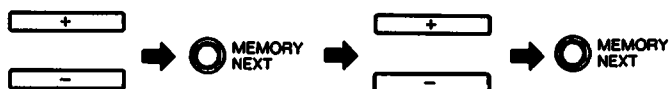
Timer setting



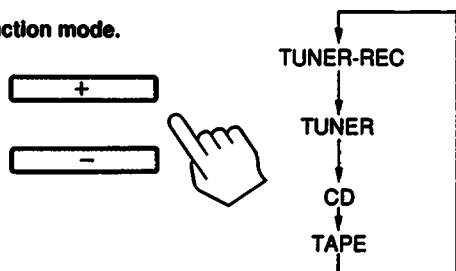
2 Set the desired turn-on time.



3 Set the desired turn-off time.



4 Select a desired function mode.



Only one program can be preset each day.

Before setting the timer

- Make sure the clock is set correctly (See page 6).
- If you want to record a radio program, make sure a cassette tape long enough is inserted.
- For MHC-3300CD: under timer operation, only Deck B is operative. Make sure a cassette tape is inserted into Deck B in TAPE or TUNER REC mode.

To change the timer program

- 1 Press TIMER SET.
- 2 Press NEXT until the item to be changed blinks.
- 3 Change the program with $\leftarrow$ or $\rightarrow$.
- 4 Press NEXT.

On days when you do not want to operate the timer program

Press TIMER CONTROL to turn off the "TIMER" indication. Press TIMER CONTROL again to reactivate the timer.

To select a radio station to be tuned in
After you select the TUNER or TUNER REC mode, tune in the desired station before turning off the power. At the preset time, the selected station is automatically tuned in.

When the power is already on at the preset time

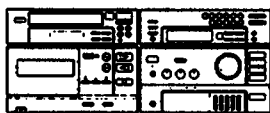
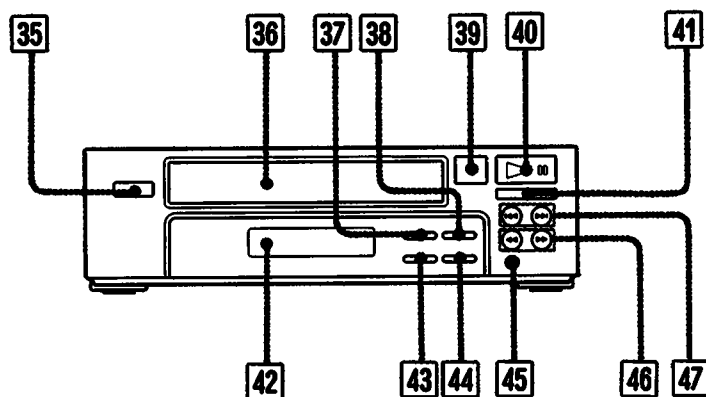
The function mode will be automatically changed to the preset one, even if you are playing a program of another function. However, when you have preset to the TUNER REC mode, recording will not be performed even though the station is tuned in. Be sure to turn power off before the preset time for tuner recording.

When you preset the TAPE or TUNER REC mode

The tape deck always starts playback or recording on the front side of the cassette in timer operation, even if playback or recording last stopped on the reverse side with the DIRECTION MODE switch set to $\leftarrow$.

To record from the end of the last recording, be sure to turn the cassette over, otherwise, recording on the front side will be erased.

Parts Identification

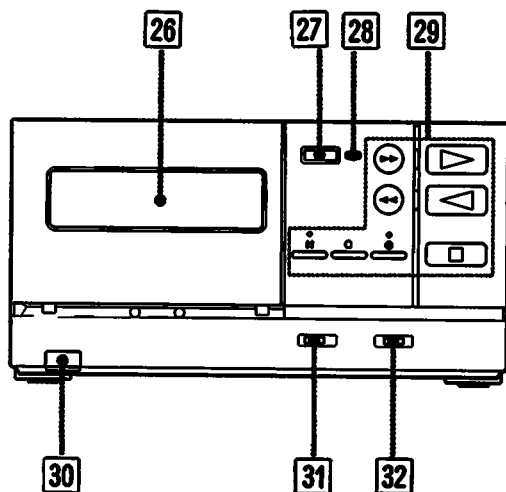


CD Player Section

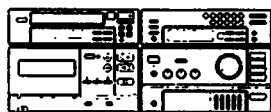
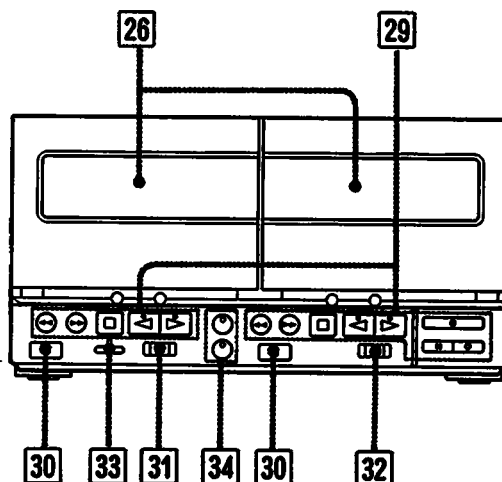
- 35** POWER switch
- 36** Disc compartment
- 37** PROGRAM button
- 38** SHUFFLE button
- 39** △ (open/close) button
- 40** ▷|| (play/pause) button
- 41** ■ (stop) button
- 42** Display window
- 43** DISPLAY button
- 44** CONTINUE button
- 45** REPEAT button
- 46** ◀▶ (manual search) buttons
- 47** ◀◀▶▶ (AMS*) buttons

* AMS is an abbreviation of Automatic Music Sensor.

MHC-2200CD



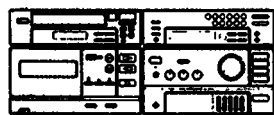
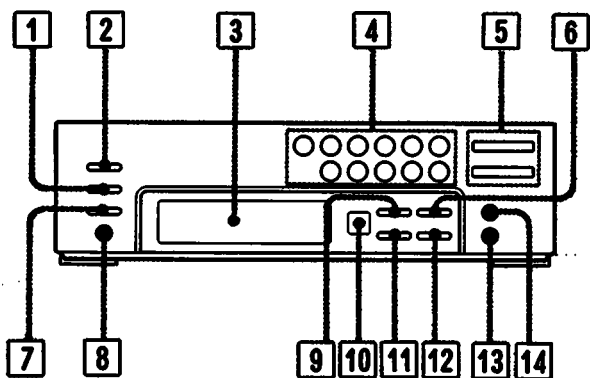
MHC-3300CD



Cassette Deck Section

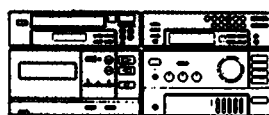
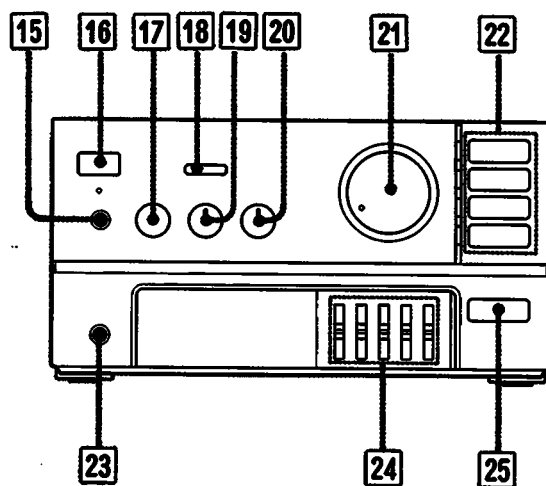
- 26** Cassette holder
- 27** TAPE COUNTER (MHC-2200CD only)
- 28** RESET (counter reset) button (MHC-2200CD only)
- 29** Tape operation buttons
 - ◀▶ : Fast winding
 - ▶ : Forward play
 - ◀ : Reverse play
 - : Stop
 - ⏸ : Pause
 - : Record muting
 - : Record
- 30** ▲ EJECT button
- 31** DIRECTION MODE selector
- 32** DOLBY NR switch
- 33** AMS/BLANK SKIP button (MHC-3300CD only)
- 34** DUBBING SPEED selectors (MHC-3300CD only)

Parts Identification



Tuner Section

- 1** TIMER SET button
- 2** TIMER CONTROL switch
- 3** Display window
- 4** PRESET STATION buttons
- 5** + / - buttons
- 6** MEMORY SCAN button
- 7** SLEEP button
- 8** CLOCK button
- 9** STEREO/MUTING button
- 10** Remote sensor
Receives the remote-control signals.
- 11** TIME/FREQUENCY button
- 12** PRESET/TUNING button
- 13** MEMORY/NEXT button
- 14** BAND selector



Amplifier Section

- 15** MIX MIC (mixing microphone) jack (minijack)
- 16** POWER switch
- 17** MIC LEVEL (microphone level) control
- 18** DBFB (Dynamic Bass Feedback) button
- 19** DBFB LEVEL control
- 20** BALANCE control
- 21** VOLUME control
- 22** Function selectors
- 23** HEADPHONES jack (stereo minijack)
- 24** GRAPHIC EQUALIZER controls
- 25** EQUALIZATION switch

Troubleshooting Guide

The following checks will assist in the correction of most problems which you may encounter with your system. Before going through the check list below, first check the following points.

- The power cord must be connected firmly.
- The speaker connection must also be firm.

Should any problem persist after you have made these checks, consult your nearest Sony dealer.

Radio Reception	
Symptom	Cause (and remedy)
The TUNED indicator flickers.	• Adjust the antenna.
The STEREO indicator flickers.	• Adjust the antenna.
Severe hum or noise.	• Adjust the antenna. • The signal strength is too weak. Connect the external antenna (See page 4). • Connect the ground wire.

Cassette Deck Operation	
Symptom	Cause (and Remedy)
The ● button cannot be activated.	• No cassette in the cassette holder. • The tab is removed from the cassette. (See page 13)
The ●, ▷ or ◁ button cannot be activated.	• The tape is wound completely.
Tape does not move even when the ▷ or ◁ button is activated.	• The cassette deck is in the pause mode.
Recording or playback cannot be made or there is a decrease in sound level.	• Dirty head. (See page 25) • Magnetic build-up on the record/playback head. (See page 25)
Excessive wow or flutter, or sound drop-out	• Contamination of the capstans or pinch rollers. (See page 25)
Insufficient erasure	• Magnetism built-up on the erase head. (See page 25)
Increase of noise or erasure of high frequencies	• Magnetism built-up on the erase head. (See page 25)

CD Player Operation	
Symptom	Cause (and Remedy)
The disc tray does not close.	• The disc is not placed correctly.
Play does not start.	• Dirty disc. (See page 25.)
	• The disc is inserted upside down.
	• The player is in the pause mode.
	• Moisture condensation.
"no disc" is displayed	• There is no disc in the unit.
Sound is not heard.	• Loose connection. (See page 5.)
	• Connection is incorrect (See page 5.)
When listening through the headphones.	• PHONE LEVEL control is set to the minimum.
Play does not begin from the first selection.	• The player is in the PROGRAM or SHUFFLE mode. Press CONTINUE.
⋯ is displayed.	• ►► was continuously pressed at the end of the disc. Press ◀◀ or ◀◀ to return to normal indication.
Any operation is not possible.	• The internal control program may not run. Turn off the power and turn it on again.

General	
Symptom	Cause (and Remedy)
No audio	• Turn the VOLUME control to the right.
No audio from one channel or unbalanced left and right volume	• Adjust the BALANCE control. • Check the speaker connections of the inoperative channel.
Reversed left and right sound	• Check the speaker cord connection and speaker location.
Lack of bass sound or apparently imprecise physical location of musical instruments	• Check the speaker connection for proper phasing.
Severe hum or noise	• A TV or VTR is too close to the stereo system. Separate the stereo system from the TV or VTR.

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads both channels driven, from 50 – 20,000 Hz; rated 30 watts on MHC-3300CD (22 W on MHC-2200CD) per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 miliwatts to rated output.

Tuner (ST-818M)

System FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108 MHz
Antenna terminals 75 ohms unbalanced/300 ohms balanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range 530 to 1,710 kHz
(with the AM tuning interval set at 10 kHz)
531 to 1,710 kHz
(with the AM tuning interval set at 9 kHz)
Antenna Am loop antenna
External antenna terminal
Intermediate frequency 450 kHz

Amplifier (TA-717M/TA-818M)

Inputs

	Sensitivity	Impedance
CD (phono jacks)	450 mV	50 kilohms
MIC (minijack)	1 mV	600 ohms
AUX (phono jacks)	2.5 mV	47 kilohms

Outputs

HEADPHONES (stereo minijack)	Accepts headphones of 8 ohms or more.
SPEAKER	Accepts speakers of 6 to 16 ohms.

Cassette Deck (TC-717M/TC-818M)

Recording system 4-track 2-channel stereo
Frequency response

Used cassette	TC-717M	TC-818M
TYPE I (Sony HF-S)	40-13,000 Hz (±3 dB)	
TYPE II (Sony UCX)	40-14,000 Hz (±3 dB)	
TYPE IV (Sony)		40-15,000 Hz (±3 dB)

Wow and flutter 0.1% WRMS
± 0.2% (DIN)

Compact disc player (CDP-S207)

Frequency response 5 Hz – 20 kHz (±0.5 dB)
Signal to noise ratio More than 95 dB
Dynamic range More than 90 dB
Harmonic distortion Less than 0.05% (at 1 kHz)
Channel separation More than 90 dB
Outputs LINE OUT (FIXED) (phono jacks):
Output level 2 V (at 50 kilohms)
Load impedance over 10 kilohms

Speaker SS-H2200 - H3300

Speaker system 3-way speaker system
Speaker units Woofer: 14 cm (5.5 in.) cone type
Tweeter: 5 cm (2 in.) cone type
<2.5 cm (1 in.), soft dome type>
Super tweeter: 2 cm (13/16 in.), dome type
Power handling capacity Nominal 45 W
Sensitivity 89 dB/W/m
Frequency range 60 Hz to 20,000 Hz
Impedance 6 ohms

General

Power requirements 120 V AC, 60 Hz
Power consumption MHC-2200CD: 75W
MHC-3300CD: 95W
CDP-S207: 10W

Dimensions/Weight

	Dimensions* (w/h/d)	Weight
ST-818M	Approx. 225 × 65 × 230 mm (8 ⁷ / ₈ × 2 ⁵ / ₈ × 9 ¹ / ₈ inches)	Approx. 1.1kg (2 lb 7 oz) net
TA-717M	Approx. 225 × 120 × 270 mm (8 ⁷ / ₈ × 4 ³ / ₈ × 10 ³ / ₈ inches)	Approx. 3.8kg (8 lb 6 oz) net
TA-818M		Approx. 4.3kg (9 lb 8 oz) net
TC-717M	Approx. 225 × 120 × 230 mm (8 ⁷ / ₈ × 4 ³ / ₈ × 9 ¹ / ₈ inches)	Approx. 1.7kg (3 lb 12 oz) net
TC-818M		Approx. 2.6kg (5 lb 12 oz) net
CDP-S207	225 × 65 × 230 mm (8 ⁷ / ₈ × 4 ³ / ₈ × 9 ¹ / ₈ inches)	Approx. 2.0kg (4 lb 7 oz)
SS-H2200	Approx. 185 × 300 × 220 mm (8 ³ / ₈ × 11 ⁷ / ₈ × 8 ³ / ₈ inches)	Approx. 3.0kg (6 lb 10 oz)
SS-H3300		Approx. 3.4kg (7 lb 8 oz)

* incl. projecting parts and controls

Supplied accessories Remote Commander (1)
Sony SUM-3(NS) batteries (2)
Flat cord (1)
Audio cord (1, 2 phono plugs–2 phono plugs)
CD player connecting cord (1)
AM loop antenna (1) FM antenna (1)
Optional accessories Drum pad DRP-1

Design and specifications subject to change without notice.

System component

	MHC-2200CD	MHC-3300CD
Tuner	ST-818M	
Amplifier	TA-717M	TA-818M
Cassette deck	TC-717M	TC-818M
CD player	CDP-S207	
Speaker	SS-H2200	SS-H3300

Maintenance

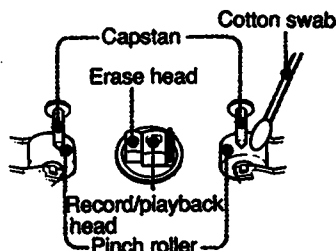
Recording the Mixed Sound

Insert a cassette and set the deck to the record mode.

Recording from a microphone only

- 1 Turn off any equipment connected to the CD jacks at the rear.
- 2 Press CD.
- 3 Set MIC LEVEL to MAX.
- 4 While keeping ● pressed, press ▷ or ◁.
- 5 Speak or sing into the microphone, and start recording.

Cleaning the Heads and the Tape Paths



Clean after every 10 hours of operation and before recording for optimum record/playback quality.

- 1 Press ▲ to open the cassette holders.
- 2 Slightly moisten the tip of a cotton swab with cleaning fluid or alcohol.
- 3 Wipe the heads, pinch rollers and the capstans.

Do not insert a cassette until cleaned areas are completely dry.

Demagnetizing the Heads

After 20 to 30 hours of use, it is necessary to remove residual magnetism built up on the heads. Turn off the power and demagnetize the heads with any commercially available demagnetizer.

Cleaning the Cabinet

Use a soft cloth slightly moistened with mild detergent solution.

Cleaning Discs

When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.



Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for analog discs.

To stop howling (acoustic feedback)

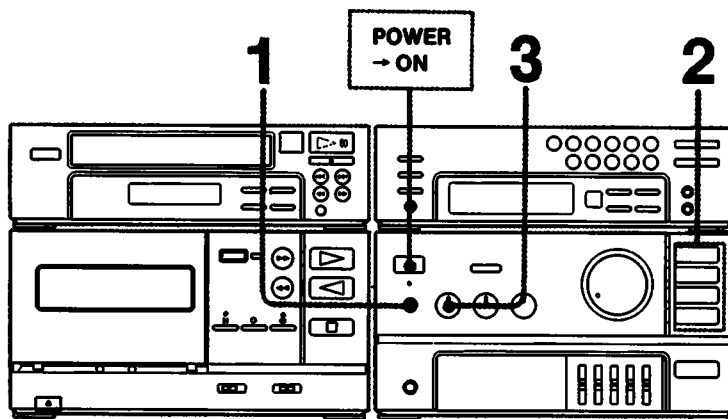
Placing the microphone too close to the speakers may cause howling. Move the microphone away from the speakers or change the direction it faces.

Important!

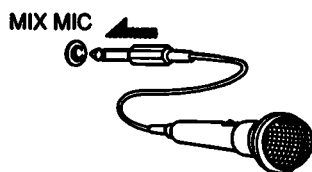
When you have finished mixing, be sure to disconnect the microphone from the MIC jack, and set the MIC LEVEL control to MIN. Otherwise it may cause noise.

Microphone Mixing

Mixing operation



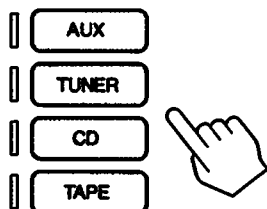
1



3

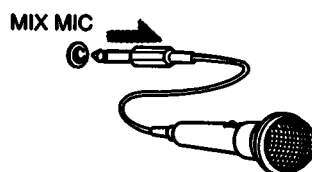


2 Select program source, and play it.



4 Sing or speak into the microphone.

When mixing is over



SleepTimer Operation

Sleep-timer setting

By setting the sleep timer, the system power can be turned off after the preset duration.

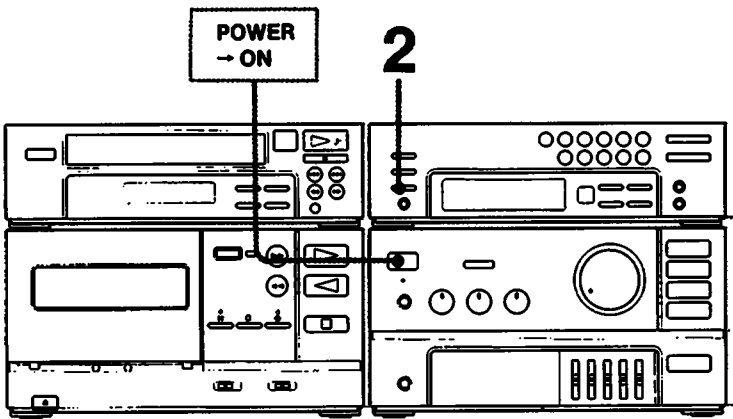
To turn off the system

Press POWER switch to off.

To check the remaining time

Press SLEEP once, and it is shown on the display.

It returns to the previous display automatically several seconds later.

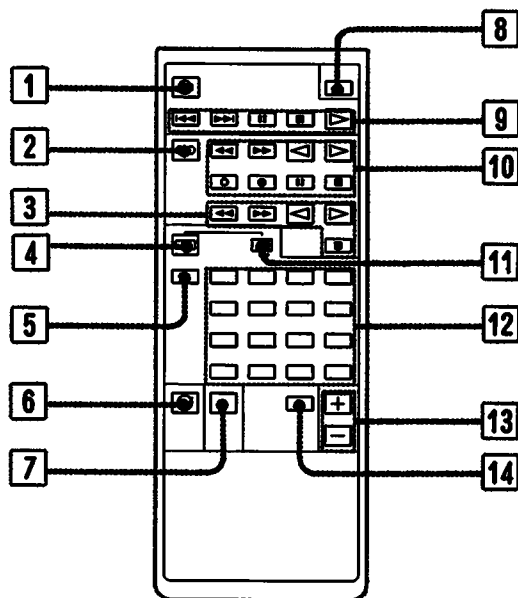


1 Play the desired program source.

2 Select desired time.



Indication	Playing duration
90	90 minutes
80	80 minutes
10	10 minutes
	The sleep timer will be turned off.



Remote Commander

- 1** CD function button
- 2** TAPE function button
- 3** Tape deck A operation buttons (MHC-3300CD only)
- 4** TUNER function button
- 5** SHIFT button
- 6** PHONO function button
- 7** AUX (auxiliary input) button
- 8** POWER switch
- 9** CD player operation buttons
- 10** Tape deck (B) operation buttons
- 11** TUNER/CD selector
 - TUNER: Numeric buttons (1-10) can be used for preset tuning on the tuner.
 - CD: Numeric buttons (1-16) can be used for direct music selection on the CD player.
- 12** Numeric buttons
(1-10 for tuner/ 1-16 for CD player)
- 13** VOLUME +/- buttons
- 14** DBFB button